

WHAT IS CLAIMED IS:

CLAIMS:

- 5 1. A coating composition for application on an ink jet printed porous substrate for improving the waterfastness of the ink jet image comprising a polymer, a pH modifier, a thickening additive, an electrolyte, a surfactant, and water.
- 10 2. A coating composition as claimed in claim 1 wherein the polymer comprises ethoxylated polyethyleneimine.
- 15 3. A coating composition as claimed in claim 2 wherein the ethoxylated polyethyleneimine comprises from about 0.5% to 10% by weight, based on a 100% weight basis.
- 20 4. A coating composition as claimed in claim 3 wherein the ethoxylated polyethyleneimine comprises 5% by weight.
5. A coating composition as claimed in claim 1 wherein the surfactant is selected from the group consisting of nonionic, anionic and cationic surfactants.
- 25 6. A coating composition as claimed in claim 5 wherein the surfactant comprises Surfynol.
7. A coating composition as claimed in claim 6 wherein the Surfynol is present in an amount of about 0.05% to 0.5% by weight.
8. A coating composition as claimed in claim 7 wherein the Surfynol comprises 0.3% by weight.

9. A coating composition as claimed in claim 1 wherein the pH modifier comprises N,N-dimethylethanolamine.

5 10. A coating composition as claimed in claim 9 wherein the N,N-dimethylethanolamine is present in an amount capable of maintaining the pH of the coating composition between about 8.8 and 9.1.

10 11. A coating composition as claimed in claim 10 wherein the N,N-dimethylethanolamine is present in an amount of about 1% to about 3% by weight.

12. A coating composition as claimed in claim 11 wherein the N,N-dimethylethanolamine comprises 2% by weight.

15 13. A coating composition as claimed in claim 1 wherein the electrolyte comprises ammonium sulfate.

20 14. A coating composition as claimed in claim 13 wherein the ammonium sulfate is present in an amount of about 0.5% to 5% by weight.

15. A coating composition as claimed in claim 1 wherein the thickening additive comprises Guar.

25 16. A coating composition as claimed in claim 15 wherein the Guar is present in an amount of up to about 1% by weight.

17. A coating composition as claimed in claim 1 further comprising a lower aliphatic alcohol.

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